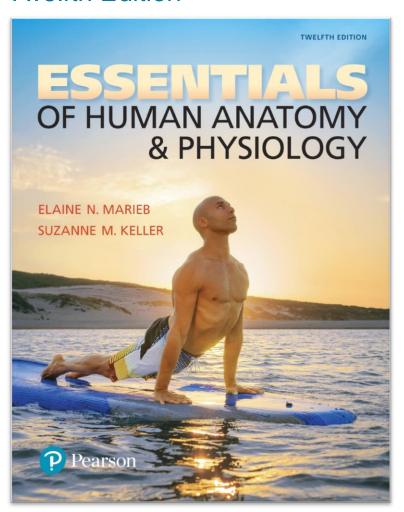
Essentials of Human Anatomy & Physiology

Twelfth Edition



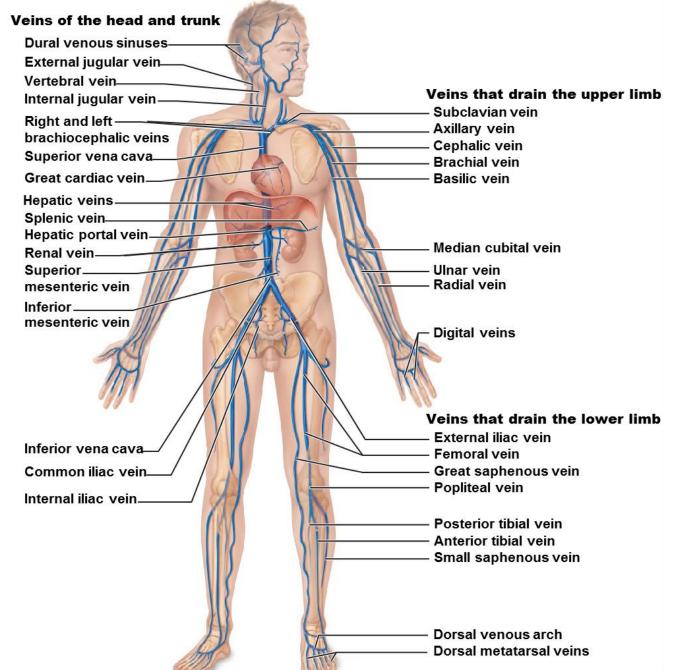
Chapter 11

The Cardiovascular System

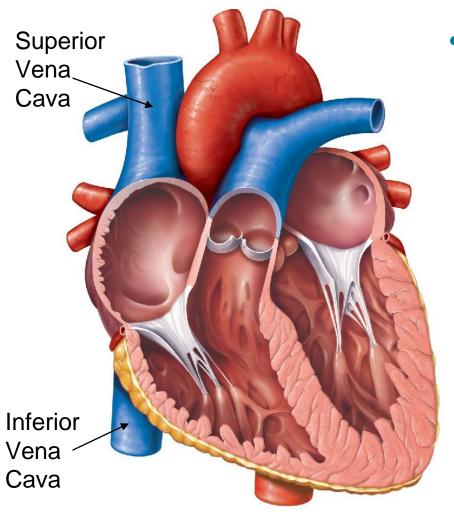
Lecture Presentation by
Patty Bostwick-Taylor
Florence-Darlington Technical College









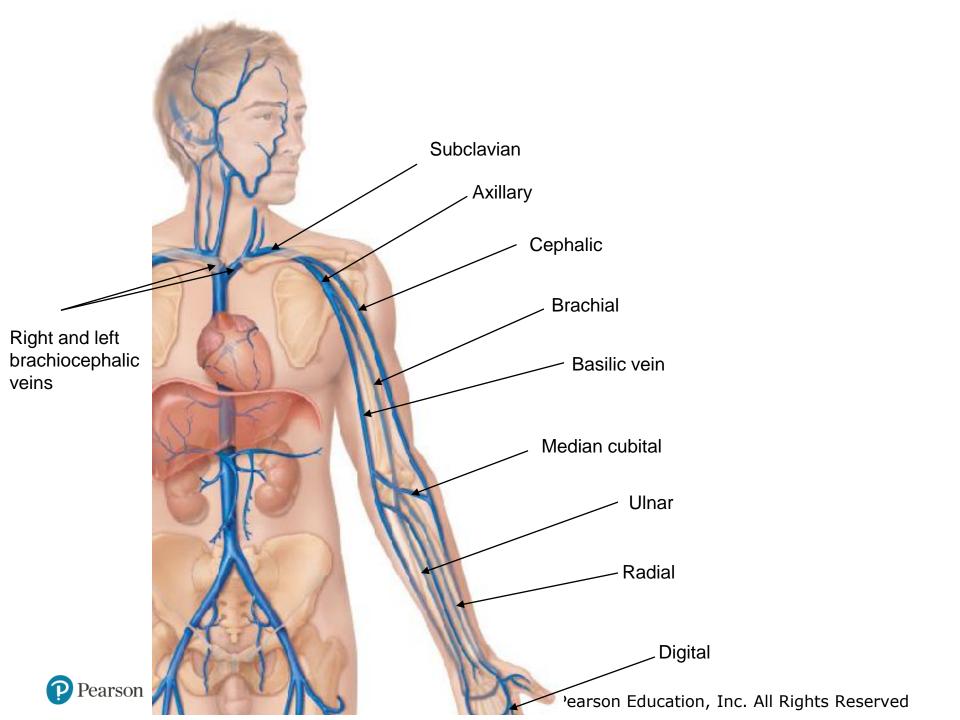


- Superior vena cava and inferior vena cava enter the right atrium of the heart
 - Superior vena cava drains the head and arms
 - Inferior vena cava drains the lower body



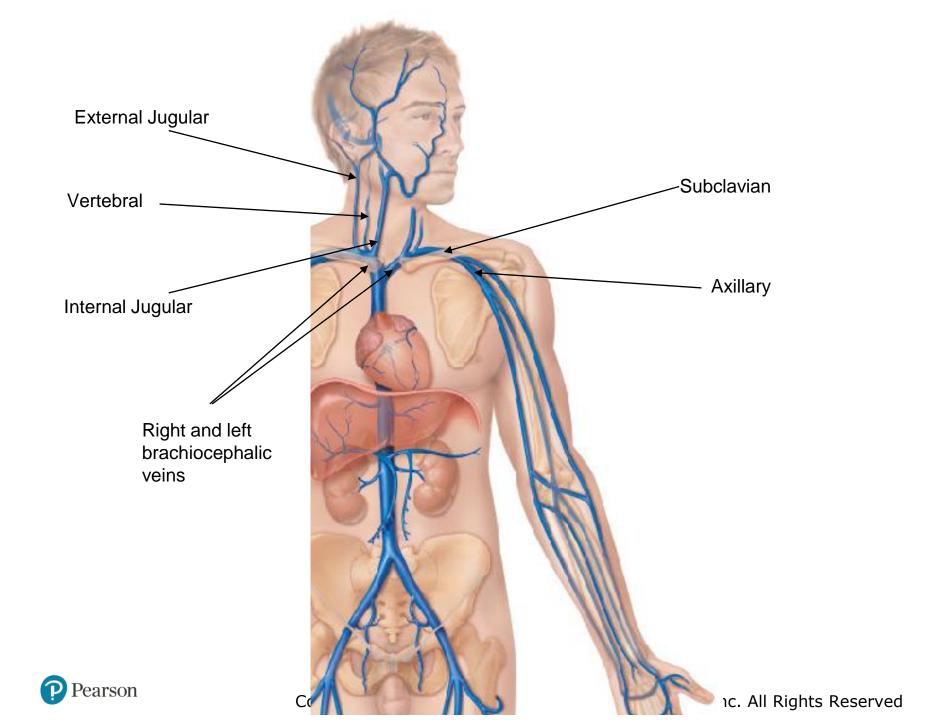
- Veins draining into the superior vena cava
 - Radial and ulnar veins → brachial vein → axillary vein
 - Cephalic vein drains the lateral (outside) aspect of the arm and empties into the axillary vein
 - Basilic vein drains the medial (inside) aspect of the arm and empties into the brachial vein
 - Basilic and cephalic veins are joined at the median cubital vein (elbow area)





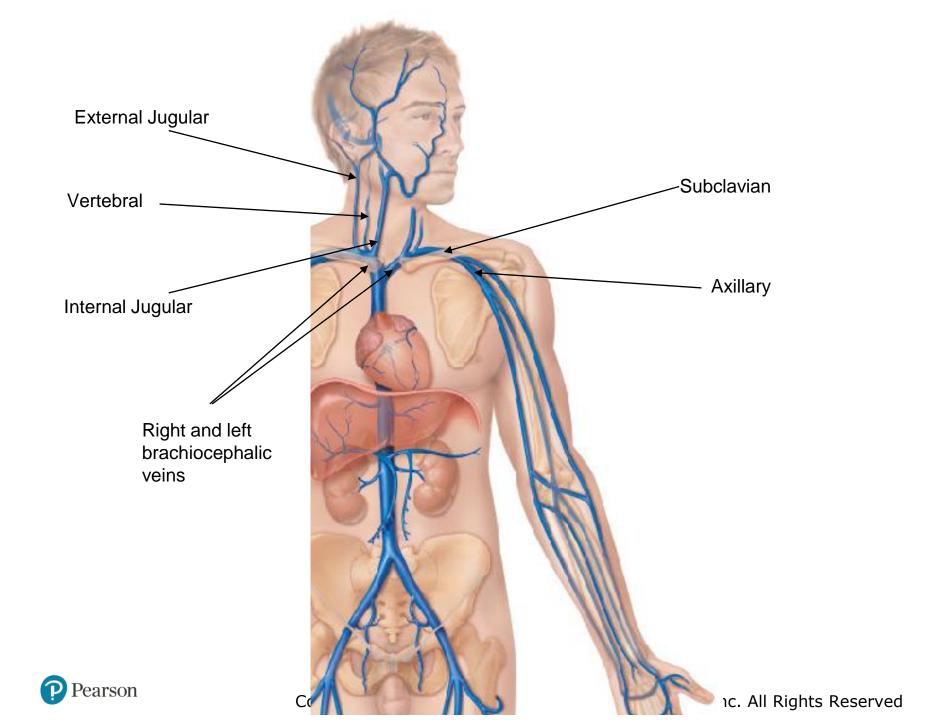
- Veins draining into the superior vena cava
 - Subclavian vein receives:
 - Venous blood from the arm via the axillary vein
 - Venous blood from skin and muscles via external jugular vein
 - Vertebral vein drains the posterior part of the head
 - Internal jugular vein drains the dural sinuses of the brain





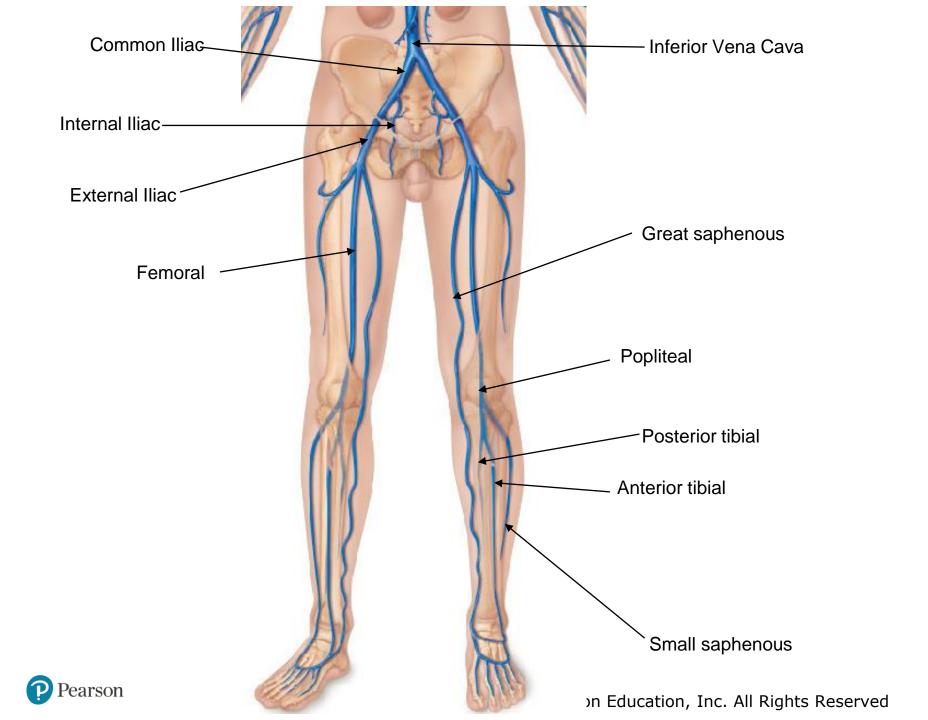
- Veins draining into the superior vena cava
 - Left and right brachiocephalic veins receive venous blood from the:
 - Subclavian veins
 - Vertebral veins
 - Internal jugular veins
 - Brachiocephalic veins join to form the superior vena cava → right atrium of heart
 - Azygos vein drains the thorax





- Veins draining into the inferior vena cava
 - Anterior and posterior tibial veins and fibial veins drain the legs
 - Posterior tibial vein → popliteal vein → femoral vein
 → external iliac vein
 - Great saphenous veins (longest veins of the body) receive superficial drainage of the legs
 - Each common iliac vein (left and right) is formed by the union of the internal and external iliac vein on its own side





- Veins draining into the inferior vena cava
 - Right gonadal vein drains the right ovary in females and right testicle in males
 - Left gonadal vein empties into the left renal vein
 - Left and right renal veins drain the kidneys
 - Hepatic portal vein drains the digestive organs and travels through the liver before it enters systemic circulation
 - Left and right hepatic veins drain the liver



